

SEQUENCE LISTING

<110> F. Hoffmann-La Roche AG

<120> Anti-HLA-G antibodies and use thereof

<130> P34773-WO

<150> EP18168011.7

<151> 2018-04-18

<160> 55

<170> PatentIn version 3.5

<210> 1

<211> 5

<212> PRT

<213> rat

<400> 1

Asp	Tyr	Trp	Val	Ser
1				5

<210> 2

<211> 15

<212> PRT

<213> rat

<400> 2

Glu	Ile	Ser	Pro	Asn	Ser	Gly	Ala	Ser	Asn	Phe	Asp	Glu	Asn	Phe
1				5					10					15

<210> 3

<211> 11

<212> PRT

<213> rat

<400> 3

Ser	Ser	His	Gly	Ser	Phe	Arg	Trp	Phe	Ala	Tyr
1				5					10	

<210> 4

<211> 12

<212> PRT

<213> rat

<400> 4

Arg Ala Ser Ser Ser Val Ser Ser Asn His Leu His
1 5 10

<210> 5
<211> 7
<212> PRT
<213> rat

<400> 5

Ser Thr Ser Gln Arg Ala Ser
1 5

<210> 6
<211> 9
<212> PRT
<213> rat

<400> 6

Gln Gln Gly Ser Ser Asn Pro Tyr Thr
1 5

<210> 7
<211> 120
<212> PRT
<213> rat

<400> 7

Gln Val Lys Leu Met Gln Ser Gly Ala Ala Leu Val Lys Pro Gly Thr
1 5 10 15

Ser Val Lys Met Ser Cys Asn Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Trp Val Ser Trp Val Lys Gln Ser His Gly Lys Arg Leu Glu Trp Val
35 40 45

Gly Glu Ile Ser Pro Asn Ser Gly Ala Ser Asn Phe Asp Glu Asn Phe
50 55 60

Lys Asp Lys Ala Thr Leu Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Arg Leu Thr Ser Glu Asp Ser Ala Ile Tyr Tyr Cys
85 90 95

Thr Arg Ser Ser His Gly Ser Phe Arg Trp Phe Ala Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 8
<211> 108
<212> PRT
<213> rat

<400> 8

Ala Ile Val Leu Asn Gln Ser Pro Ser Ser Ile Val Ala Ser Gln Gly
1 5 10 15

Glu Lys Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Asn
20 25 30

His Leu His Trp Tyr Gln Gln Lys Pro Gly Ala Phe Pro Lys Phe Val
35 40 45

Ile Tyr Ser Thr Ser Gln Arg Ala Ser Gly Ile Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Ser Tyr Ser Phe Thr Ile Ser Arg Val Glu
65 70 75 80

Ala Glu Asp Val Ala Thr Tyr Tyr Cys Gln Gln Gly Ser Ser Asn Pro
85 90 95

Tyr Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
100 105

<210> 9
<211> 5
<212> PRT
<213> human

<400> 9

Ser Tyr Ala Met Asn
1 5

<210> 10
<211> 17
<212> PRT
<213> human

<400> 10

Val Ile Ser Gly Ser Gly Val Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 11
<211> 14
<212> PRT
<213> human

<400> 11

Asp Gly Ser Tyr Asn Tyr Gly Tyr Gly Asp Tyr Phe Asp Tyr
1 5 10

<210> 12
<211> 17
<212> PRT
<213> human

<400> 12

Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Lys Asn Lys Asn Tyr Leu
1 5 10 15

Ala

<210> 13
<211> 7
<212> PRT
<213> human

<400> 13

Trp Ala Ser Thr Arg Glu Ser
1 5

<210> 14
<211> 9
<212> PRT
<213> human

<400> 14

Gln Gln Tyr Tyr Asn Thr Pro Arg Thr
1 5

<210> 15
<211> 123
<212> PRT
<213> human

<400> 15

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Val Ile Ser Gly Ser Gly Val Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Arg Asn Thr Leu Ser
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Asp Gly Ser Tyr Asn Tyr Gly Tyr Gly Asp Tyr Phe Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 16
<211> 113

<212> PRT
<213> human

<400> 16

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

Ser Lys Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Phe Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
85 90 95

Tyr Tyr Asn Thr Pro Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 17
<211> 5
<212> PRT
<213> human

<400> 17

Thr Tyr Gly Met Ser
1 5

<210> 18
<211> 17
<212> PRT
<213> human

<400> 18

Val Ile Ser Gly Gly Gly Val Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 19
<211> 14
<212> PRT
<213> human

<400> 19

Asp Gly Ser Tyr Asn Tyr Gly Tyr Gly Asp Tyr Phe Asp Tyr
1 5 10

<210> 20
<211> 17
<212> PRT
<213> human

<400> 20

Lys Ser Ser Gln Asn Val Leu Tyr Ser Ser Asn Asn Lys Asn Tyr Leu
1 5 10 15

Ala

<210> 21
<211> 7
<212> PRT
<213> human

<400> 21

Trp Ala Ser Thr Arg Glu Ser
1 5

<210> 22
<211> 9
<212> PRT
<213> human

<400> 22

Gln Gln Tyr Tyr Asn Thr Pro Arg Thr

1 5

<210> 23
<211> 123
<212> PRT
<213> human

<400> 23

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr
20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Val Ile Ser Gly Gly Gly Val Ser Thr Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Arg Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Asp Gly Ser Tyr Asn Tyr Gly Tyr Gly Asp Tyr Phe Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 24
<211> 113
<212> PRT
<213> human

<400> 24

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Asn Val Leu Tyr Ser

20

25

30

Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
 85 90 95

Tyr Tyr Asn Thr Pro Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 100 105 110

Lys

<210> 25
 <211> 7
 <212> PRT
 <213> human

<400> 25

Ser Asn Arg Ala Ala Trp Asn
 1 5

<210> 26
 <211> 18
 <212> PRT
 <213> human

<400> 26

Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala Val Ser Val
 1 5 10 15

Gln Gly

<210> 27

<211> 9
<212> PRT
<213> human

<400> 27

Val Arg Ala Val Ala Pro Phe Asp Tyr
1 5

<210> 28
<211> 17
<212> PRT
<213> human

<400> 28

Lys Ser Ser Gln Ser Val Leu Asn Ser Ser Asn Asn Lys Asn Asn Leu
1 5 10 15

Ala

<210> 29
<211> 7
<212> PRT
<213> human

<400> 29

Trp Ala Ser Thr Arg Glu Ser
1 5

<210> 30
<211> 9
<212> PRT
<213> human

<400> 30

Gln Gln Tyr Tyr Arg Thr Pro Trp Thr
1 5

<210> 31
<211> 121
<212> PRT
<213> human

<400> 31

Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Leu Lys Pro Ser Gln
1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn
20 25 30

Arg Ala Ala Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu
35 40 45

Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala
50 55 60

Val Ser Val Gln Gly Arg Ile Thr Leu Ile Pro Asp Thr Ser Lys Asn
65 70 75 80

Gln Phe Ser Leu Arg Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val
85 90 95

Tyr Tyr Cys Ala Ser Val Arg Ala Val Ala Pro Phe Asp Tyr Trp Gly
100 105 110

Gln Gly Val Leu Val Thr Val Ser Ser
115 120

<210> 32
<211> 113
<212> PRT
<213> human

<400> 32

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Asn Ser
20 25 30

Ser Asn Asn Lys Asn Asn Leu Ala Trp Tyr Gln Gln Gln Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Phe Cys Gln Gln
85 90 95

Tyr Tyr Arg Thr Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys

<210> 33

<211> 120

<212> PRT

<213> artificial

<220>

<223> humanized variant heavy chain variable domain VH, HLA-G-0031-0104
(HLA-G-0104)

<400> 33

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
20 25 30

Trp Val Ser Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met
35 40 45

Gly Glu Ile Ser Pro Asn Ser Gly Ala Ser Asn Phe Asp Glu Asn Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Thr Arg Ser Ser His Gly Ser Phe Arg Trp Phe Ala Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 34
<211> 108
<212> PRT
<213> artificial

<220>
<223> humanized variant light chain variable domain VL, HLA-G-0031-0104
(HLA-G-0104)

<400> 34

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Val Ser Ser Asn
20 25 30

His Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Phe Leu
35 40 45

Ile Tyr Ser Thr Ser Gln Arg Ala Ser Gly Val Pro Ser Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Ser Ser Asn Pro
85 90 95

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105

<210> 35
<211> 314
<212> PRT
<213> homo sapiens

<400> 35

Gly Ser His Ser Met Arg Tyr Phe Ser Ala Ala Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Met Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ser Ala Cys Pro Arg Met Glu Pro Arg
35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Glu Glu Glu Thr
50 55 60

Arg Asn Thr Lys Ala His Ala Gln Thr Asp Arg Met Asn Leu Gln Thr
65 70 75 80

Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala Ser Ser His Thr Leu Gln
85 90 95

Trp Met Ile Gly Cys Asp Leu Gly Ser Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Glu Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Leu Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Ser Lys
130 135 140

Arg Lys Cys Glu Ala Ala Asn Val Ala Glu Gln Arg Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu His Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Met Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Phe Asp Tyr Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Ile Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Val Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Met Leu
260 265 270

Arg Trp Lys Gln Ser Ser Leu Pro Thr Ile Pro Ile Met Gly Ile Val
275 280 285

Ala Gly Leu Val Val Leu Ala Ala Val Val Thr Gly Ala Ala Val Ala
290 295 300

Ala Val Leu Trp Arg Lys Lys Ser Ser Asp
305 310

<210> 36
<211> 274
<212> PRT
<213> homo sapiens

<400> 36

Gly Ser His Ser Met Arg Tyr Phe Ser Ala Ala Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Met Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ser Ala Cys Pro Arg Met Glu Pro Arg
35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Glu Glu Glu Thr
50 55 60

Arg Asn Thr Lys Ala His Ala Gln Thr Asp Arg Met Asn Leu Gln Thr
65 70 75 80

Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala Ser Ser His Thr Leu Gln
85 90 95

Trp Met Ile Gly Cys Asp Leu Gly Ser Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Glu Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Leu Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Ser Lys
130 135 140

Arg Lys Cys Glu Ala Ala Asn Val Ala Glu Gln Arg Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu His Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Met Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Phe Asp Tyr Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Ile Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Val Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Met Leu
260 265 270

Arg Trp

<210> 37

<211> 99

<212> PRT

<213> homo sapiens

<400> 37

Ile Gln Arg Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro Ala Glu
1 5 10 15

Asn Gly Lys Ser Asn Phe Leu Asn Cys Tyr Val Ser Gly Phe His Pro
20 25 30

Ser Asp Ile Glu Val Asp Leu Leu Lys Asn Gly Glu Arg Ile Glu Lys
35 40 45

Val Glu His Ser Asp Leu Ser Phe Ser Lys Asp Trp Ser Phe Tyr Leu
50 55 60

Leu Tyr Tyr Thr Glu Phe Thr Pro Thr Glu Lys Asp Glu Tyr Ala Cys
65 70 75 80

Arg Val Asn His Val Thr Leu Ser Gln Pro Lys Ile Val Lys Trp Asp
85 90 95

Arg Asp Met

<210> 38

<211> 275

<212> PRT

<213> Artificial

<220>

<223> modified human HLA-G (wherein the HLA-G specific amino acids have
been replaced by HLA-A consensus amino acids (= degrafted HLA-G)
ECD

<400> 38

Gly Ser His Ser Met Arg Tyr Phe Ser Ala Ala Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Met Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Pro Arg Met Glu Pro Arg
35 40 45

Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Asp Glu Glu Thr
50 55 60

Arg Asn Thr Lys Ala His Ala Gln Thr Asp Arg Val Asn Leu Gly Thr
65 70 75 80

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Leu Gln
85 90 95

Trp Met Ile Gly Cys Asp Val Gly Ser Asp Gly Arg Leu Leu Arg Gly
100 105 110

Tyr Glu Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Leu Ala Leu Asn Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Ser Lys
130 135 140

Arg Lys Cys Glu Ala Ala His Val Ala Glu Gln Arg Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His
180 185 190

Pro Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Val Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu
260 265 270

Arg Trp Lys
275

<210> 39
<211> 341
<212> PRT
<213> homo sapiens

<400> 39

Gly Ser His Ser Met Arg Tyr Phe Phe Thr Ser Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Gly Glu Thr
50 55 60

Arg Lys Val Lys Ala His Ser Gln Thr His Arg Val Asp Leu Gly Thr
65 70 75 80

Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Val Gln
85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Ser Asp Trp Arg Phe Leu Arg Gly
100 105 110

Tyr His Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Lys Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Thr Thr Lys
130 135 140

His Lys Trp Glu Ala Ala His Val Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys

165

170

175

Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr His Met Thr His His
 180 185 190

Ala Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe
 195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
 210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Gln Glu Gln Arg
 245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
 260 265 270

Arg Trp Glu Pro Ser Ser Gln Pro Thr Ile Pro Ile Val Gly Ile Ile
 275 280 285

Ala Gly Leu Val Leu Phe Gly Ala Val Ile Thr Gly Ala Val Val Ala
 290 295 300

Ala Val Met Trp Arg Arg Lys Ser Ser Asp Arg Lys Gly Gly Ser Tyr
 305 310 315 320

Ser Gln Ala Ala Ser Ser Asp Ser Ala Gln Gly Ser Asp Val Ser Leu
 325 330 335

Thr Ala Cys Lys Val
 340

<210> 40

<211> 275

<212> PRT

<213> homo sapiens

<400> 40

Gly Ser His Ser Met Arg Tyr Phe Phe Thr Ser Val Ser Arg Pro Gly
1 5 10 15

Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln Arg Met Glu Pro Arg
35 40 45

Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp Asp Gly Glu Thr
50 55 60

Arg Lys Val Lys Ala His Ser Gln Thr His Arg Val Asp Leu Gly Thr
65 70 75 80

Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala Gly Ser His Thr Val Gln
85 90 95

Arg Met Tyr Gly Cys Asp Val Gly Ser Asp Trp Arg Phe Leu Arg Gly
100 105 110

Tyr His Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Ile Ala Leu Lys Glu
115 120 125

Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala Ala Gln Thr Thr Lys
130 135 140

His Lys Trp Glu Ala Ala His Val Ala Glu Gln Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys
165 170 175

Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr His Met Thr His His
180 185 190

Ala Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Ser Phe
195 200 205

Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln
210 215 220

Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Gln Glu Gln Arg
245 250 255

Tyr Thr Cys His Val Gln His Glu Gly Leu Pro Lys Pro Leu Thr Leu
260 265 270

Arg Trp Glu
275

<210> 41
<211> 275
<212> PRT
<213> mus musculus

<400> 41

Gly Pro His Ser Leu Arg Tyr Phe Val Thr Ala Val Ser Arg Pro Gly
1 5 10 15

Leu Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Asp Asn Pro Arg Phe Glu Pro Arg
35 40 45

Ala Pro Trp Met Glu Gln Glu Gly Pro Glu Tyr Trp Glu Glu Gln Thr
50 55 60

Gln Arg Ala Lys Ser Asp Glu Gln Trp Phe Arg Val Ser Leu Arg Thr
65 70 75 80

Ala Gln Arg Cys Tyr Asn Gln Ser Lys Gly Gly Ser His Thr Phe Gln
85 90 95

Arg Met Phe Gly Cys Asp Val Gly Ser Asp Trp Arg Leu Leu Arg Gly
100 105 110

Tyr Gln Gln Phe Ala Tyr Asp Gly Arg Asp Tyr Ile Ala Leu Asn Glu

115

120

125

Asp Leu Lys Thr Trp Thr Ala Ala Asp Thr Ala Ala Leu Ile Thr Arg
 130 135 140

Arg Lys Trp Glu Gln Ala Gly Asp Ala Glu Tyr Tyr Arg Ala Tyr Leu
 145 150 155 160

Glu Gly Glu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Leu Gly Asn
 165 170 175

Glu Thr Leu Leu Arg Thr Asp Ser Pro Lys Ala His Val Thr Tyr His
 180 185 190

Pro Arg Ser Gln Val Asp Val Thr Leu Arg Cys Trp Ala Leu Gly Phe
 195 200 205

Tyr Pro Ala Asp Ile Thr Leu Thr Trp Gln Leu Asn Gly Glu Asp Leu
 210 215 220

Thr Gln Asp Met Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
 225 230 235 240

Phe Gln Lys Trp Ala Ala Val Val Val Pro Leu Gly Lys Glu Gln Asn
 245 250 255

Tyr Thr Cys His Val His His Lys Gly Leu Pro Glu Pro Leu Thr Leu
 260 265 270

Arg Trp Lys
 275

<210> 42

<211> 274

<212> PRT

<213> rat

<400> 42

Gly Ser His Ser Leu Arg Tyr Phe Tyr Thr Ala Val Ser Arg Pro Gly
 1 5 10 15

Leu Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Glu
20 25 30

Phe Val Arg Phe Asp Ser Asp Ala Glu Asn Pro Arg Met Glu Pro Arg
35 40 45

Ala Arg Trp Met Glu Arg Glu Gly Pro Glu Tyr Trp Glu Gln Gln Thr
50 55 60

Arg Ile Ala Lys Glu Trp Glu Gln Ile Tyr Arg Val Asp Leu Arg Thr
65 70 75 80

Leu Arg Gly Cys Tyr Asn Gln Ser Glu Gly Gly Ser His Thr Ile Gln
85 90 95

Glu Met Tyr Gly Cys Asp Val Gly Ser Asp Gly Ser Leu Leu Arg Gly
100 105 110

Tyr Arg Gln Asp Ala Tyr Asp Gly Arg Asp Tyr Ile Ala Leu Asn Glu
115 120 125

Asp Leu Lys Thr Trp Thr Ala Ala Asp Phe Ala Ala Gln Ile Thr Arg
130 135 140

Asn Lys Trp Glu Arg Ala Arg Tyr Ala Glu Arg Leu Arg Ala Tyr Leu
145 150 155 160

Glu Gly Thr Cys Val Glu Trp Leu Ser Arg Tyr Leu Glu Leu Gly Lys
165 170 175

Glu Thr Leu Leu Arg Ser Asp Pro Pro Glu Ala His Val Thr Leu His
180 185 190

Pro Arg Pro Glu Gly Asp Val Thr Leu Arg Cys Trp Ala Leu Gly Phe
195 200 205

Tyr Pro Ala Asp Ile Thr Leu Thr Trp Gln Leu Asn Gly Glu Asp Leu
210 215 220

Thr Gln Asp Met Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr
225 230 235 240

Phe Gln Lys Trp Ala Ser Val Val Val Pro Leu Gly Lys Glu Gln Asn
245 250 255

Tyr Thr Cys Arg Val Glu His Glu Gly Leu Pro Lys Pro Leu Ser Gln
260 265 270

Arg Trp

<210> 43
<211> 440
<212> PRT
<213> homo sapiens

<400> 43

Arg Ile Ile Pro Arg His Leu Gln Leu Gly Cys Gly Gly Ser Gly Gly
1 5 10 15

Gly Gly Ser Gly Gly Gly Gly Ser Ile Gln Arg Thr Pro Lys Ile Gln
20 25 30

Val Tyr Ser Arg His Pro Ala Glu Asn Gly Lys Ser Asn Phe Leu Asn
35 40 45

Cys Tyr Val Ser Gly Phe His Pro Ser Asp Ile Glu Val Asp Leu Leu
50 55 60

Lys Asn Gly Glu Arg Ile Glu Lys Val Glu His Ser Asp Leu Ser Phe
65 70 75 80

Ser Lys Asp Trp Ser Phe Tyr Leu Leu Tyr Tyr Thr Glu Phe Thr Pro
85 90 95

Thr Glu Lys Asp Glu Tyr Ala Cys Arg Val Asn His Val Thr Leu Ser
100 105 110

Gln Pro Lys Ile Val Lys Trp Asp Arg Asp Met Gly Gly Gly Gly Ser
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly

130

135

140

Ser His Ser Met Arg Tyr Phe Ser Ala Ala Val Ser Arg Pro Gly Arg
 145 150 155 160

Gly Glu Pro Arg Phe Ile Ala Met Gly Tyr Val Asp Asp Thr Gln Phe
 165 170 175

Val Arg Phe Asp Ser Asp Ser Ala Cys Pro Arg Met Glu Pro Arg Ala
 180 185 190

Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Glu Glu Glu Thr Arg
 195 200 205

Asn Thr Lys Ala His Ala Gln Thr Asp Arg Met Asn Leu Gln Thr Leu
 210 215 220

Arg Gly Cys Tyr Asn Gln Ser Glu Ala Ser Ser His Thr Leu Gln Trp
 225 230 235 240

Met Ile Gly Cys Asp Leu Gly Ser Asp Gly Arg Leu Leu Arg Gly Tyr
 245 250 255

Glu Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr Leu Ala Leu Asn Glu Asp
 260 265 270

Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Gln Ile Ser Lys Arg
 275 280 285

Lys Cys Glu Ala Ala Asn Val Ala Glu Gln Arg Arg Ala Tyr Leu Glu
 290 295 300

Gly Thr Cys Val Glu Trp Leu His Arg Tyr Leu Glu Asn Gly Lys Glu
 305 310 315 320

Met Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His Pro
 325 330 335

Val Phe Asp Tyr Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr
 340 345 350

Pro Ala Glu Ile Ile Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln Thr
355 360 365

Gln Asp Val Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe
370 375 380

Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg Tyr
385 390 395 400

Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Met Leu Arg
405 410 415

Trp Gly Ser Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp
420 425 430

His Glu His His His His His His
435 440

<210> 44

<211> 441

<212> PRT

<213> Artificial

<220>

<223> exemplary modified human HLA-G β 2M MHC class I complex (wherein
the HLA-G specific amino acids have been replaced by HLA-A
consensus amino acids (= degrafted HLA-G)

<400> 44

Arg Ile Ile Pro Arg His Leu Gln Leu Gly Cys Gly Gly Ser Gly Gly
1 5 10 15

Gly Gly Ser Gly Gly Gly Gly Ser Ile Gln Arg Thr Pro Lys Ile Gln
20 25 30

Val Tyr Ser Arg His Pro Ala Glu Asn Gly Lys Ser Asn Phe Leu Asn
35 40 45

Cys Tyr Val Ser Gly Phe His Pro Ser Asp Ile Glu Val Asp Leu Leu
50 55 60

Lys Asn Gly Glu Arg Ile Glu Lys Val Glu His Ser Asp Leu Ser Phe

80

95

110

125

140

160

175

190

205

220

240

255

270

285

Lys Cys Glu Ala Ala His Val Ala Glu Gln Arg Arg Ala Tyr Leu Glu
290 295 300

Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Asn Gly Lys Glu
305 310 315 320

Thr Leu Gln Arg Ala Asp Pro Pro Lys Thr His Val Thr His His Pro
325 330 335

Val Ser Asp His Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr
340 345 350

Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln Thr
355 360 365

Gln Asp Val Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe
370 375 380

Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Glu Glu Gln Arg Tyr
385 390 395 400

Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Thr Leu Arg
405 410 415

Trp Lys Gly Gly Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu
420 425 430

Trp His Glu His His His His His His
435 440

<210> 45
<211> 441
<212> PRT
<213> mus musculus

<400> 45

Thr Tyr Gln Arg Thr Arg Ala Leu Val Gly Cys Gly Gly Ser Gly Gly
1 5 10 15

Gly Gly Ser Gly Gly Gly Gly Ser Ile Gln Lys Thr Pro Gln Ile Gln
20 25 30

Val Tyr Ser Arg His Pro Pro Glu Asn Gly Lys Pro Asn Ile Leu Asn
35 40 45

Cys Tyr Val Thr Gln Phe His Pro Pro His Ile Glu Ile Gln Met Leu
50 55 60

Lys Asn Gly Lys Lys Ile Pro Lys Val Glu Met Ser Asp Met Ser Phe
65 70 75 80

Ser Lys Asp Trp Ser Phe Tyr Ile Leu Ala His Thr Glu Phe Thr Pro
85 90 95

Thr Glu Thr Asp Thr Tyr Ala Cys Arg Val Lys His Asp Ser Met Ala
100 105 110

Glu Pro Lys Thr Val Tyr Trp Asp Arg Asp Met Gly Gly Gly Gly Ser
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
130 135 140

Pro His Ser Leu Arg Tyr Phe Val Thr Ala Val Ser Arg Pro Gly Leu
145 150 155 160

Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln Phe
165 170 175

Val Arg Phe Asp Ser Asp Ala Asp Asn Pro Arg Phe Glu Pro Arg Ala
180 185 190

Pro Trp Met Glu Gln Glu Gly Pro Glu Tyr Trp Glu Glu Gln Thr Gln
195 200 205

Arg Ala Lys Ser Asp Glu Gln Trp Phe Arg Val Ser Leu Arg Thr Ala
210 215 220

Gln Arg Cys Tyr Asn Gln Ser Lys Gly Gly Ser His Thr Phe Gln Arg
225 230 235 240

Met Phe Gly Cys Asp Val Gly Ser Asp Trp Arg Leu Leu Arg Gly Tyr
245 250 255

Gln Gln Phe Ala Tyr Asp Gly Arg Asp Tyr Ile Ala Leu Asn Glu Asp
260 265 270

Leu Lys Thr Trp Thr Ala Ala Asp Thr Ala Ala Leu Ile Thr Arg Arg
275 280 285

Lys Trp Glu Gln Ala Gly Asp Ala Glu Tyr Tyr Arg Ala Tyr Leu Glu
290 295 300

Gly Glu Cys Val Glu Trp Leu Arg Arg Tyr Leu Glu Leu Gly Asn Glu
305 310 315 320

Thr Leu Leu Arg Thr Asp Ser Pro Lys Ala His Val Thr Tyr His Pro
325 330 335

Arg Ser Gln Val Asp Val Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr
340 345 350

Pro Ala Asp Ile Thr Leu Thr Trp Gln Leu Asn Gly Glu Asp Leu Thr
355 360 365

Gln Asp Met Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe
370 375 380

Gln Lys Trp Ala Ala Val Val Val Pro Leu Gly Lys Glu Gln Asn Tyr
385 390 395 400

Thr Cys His Val His His Lys Gly Leu Pro Glu Pro Leu Thr Leu Arg
405 410 415

Trp Lys Gly Gly Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu
420 425 430

Trp His Glu His His His His His His
435 440

<210> 46
<211> 441

<212> PRT
<213> Artificial

<220>

<223> exemplary human HLA-G/ mouse H2Kd β 2M MHC class I complex wherein the positions specific for human HLA-G are grafted onto the mouse H2Kd framework

<400> 46

Thr Tyr Gln Arg Thr Arg Ala Leu Val Gly Cys Gly Gly Ser Gly Gly
1 5 10 15

Gly Gly Ser Gly Gly Gly Gly Ser Ile Gln Lys Thr Pro Gln Ile Gln
20 25 30

Val Tyr Ser Arg His Pro Pro Glu Asn Gly Lys Pro Asn Ile Leu Asn
35 40 45

Cys Tyr Val Thr Gln Phe His Pro Pro His Ile Glu Ile Gln Met Leu
50 55 60

Lys Asn Gly Lys Lys Ile Pro Lys Val Glu Met Ser Asp Met Ser Phe
65 70 75 80

Ser Lys Asp Trp Ser Phe Tyr Ile Leu Ala His Thr Glu Phe Thr Pro
85 90 95

Thr Glu Thr Asp Thr Tyr Ala Cys Arg Val Lys His Asp Ser Met Ala
100 105 110

Glu Pro Lys Thr Val Tyr Trp Asp Arg Asp Met Gly Gly Gly Gly Ser
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
130 135 140

Pro His Ser Leu Arg Tyr Phe Val Thr Ala Val Ser Arg Pro Gly Leu
145 150 155 160

Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln Phe
165 170 175

Val Arg Phe Asp Ser Asp Ser Ala Ser Pro Arg Phe Glu Pro Arg Ala
180 185 190

Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Glu Glu Gln Thr Gln
195 200 205

Arg Ala Lys Ser Asp Glu Gln Trp Phe Arg Met Ser Leu Gln Thr Ala
210 215 220

Arg Gly Cys Tyr Asn Gln Ser Glu Ala Ser Ser His Thr Phe Gln Arg
225 230 235 240

Met Phe Gly Cys Asp Leu Gly Ser Asp Gly Arg Leu Leu Arg Gly Tyr
245 250 255

Gln Gln Phe Ala Tyr Asp Gly Arg Asp Tyr Ile Ala Leu Asn Glu Asp
260 265 270

Leu Arg Ser Trp Thr Ala Ala Asp Thr Ala Ala Leu Ile Thr Lys Arg
275 280 285

Lys Trp Glu Ala Ala Asn Asp Ala Glu Tyr Tyr Arg Ala Tyr Leu Glu
290 295 300

Gly Glu Cys Val Glu Trp Leu His Arg Tyr Leu Glu Asn Gly Lys Glu
305 310 315 320

Met Leu Gln Arg Thr Asp Ser Pro Lys Ala His Val Thr His His Pro
325 330 335

Val Phe Asp Tyr Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr
340 345 350

Pro Ala Glu Ile Ile Leu Thr Trp Gln Leu Asn Gly Glu Asp Leu Thr
355 360 365

Gln Asp Val Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe
370 375 380

Gln Lys Trp Ala Ala Val Val Val Pro Ser Gly Lys Glu Gln Asn Tyr
385 390 395 400

Thr Cys His Val Gln His Glu Gly Leu Pro Glu Pro Leu Met Leu Arg
405 410 415

Trp Lys Gly Gly Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu
420 425 430

Trp His Glu His His His His His His
435 440

<210> 47
<211> 440
<212> PRT
<213> rat

<400> 47

Ala Gln Phe Ser Ala Ser Ala Ser Arg Gly Cys Gly Gly Ser Gly Gly
1 5 10 15

Gly Gly Ser Gly Gly Gly Gly Ser Ile Gln Lys Thr Pro Gln Ile Gln
20 25 30

Val Tyr Ser Arg His Pro Pro Glu Asn Gly Lys Pro Asn Phe Leu Asn
35 40 45

Cys Tyr Val Ser Gln Phe His Pro Pro Gln Ile Glu Ile Glu Leu Leu
50 55 60

Lys Asn Gly Lys Lys Ile Pro Asn Ile Glu Met Ser Asp Leu Ser Phe
65 70 75 80

Ser Lys Asp Trp Ser Phe Tyr Ile Leu Ala His Thr Glu Phe Thr Pro
85 90 95

Thr Glu Thr Asp Val Tyr Ala Cys Arg Val Lys His Val Thr Leu Lys
100 105 110

Glu Pro Lys Thr Val Thr Trp Asp Arg Asp Met Gly Gly Gly Gly Ser
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly

130

135

140

Ser His Ser Leu Arg Tyr Phe Tyr Thr Ala Val Ser Arg Pro Gly Leu
 145 150 155 160

Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Glu Phe
 165 170 175

Val Arg Phe Asp Ser Asp Ala Glu Asn Pro Arg Met Glu Pro Arg Ala
 180 185 190

Arg Trp Met Glu Arg Glu Gly Pro Glu Tyr Trp Glu Gln Gln Thr Arg
 195 200 205

Ile Ala Lys Glu Trp Glu Gln Ile Tyr Arg Val Asp Leu Arg Thr Leu
 210 215 220

Arg Gly Cys Tyr Asn Gln Ser Glu Gly Gly Ser His Thr Ile Gln Glu
 225 230 235 240

Met Tyr Gly Cys Asp Val Gly Ser Asp Gly Ser Leu Leu Arg Gly Tyr
 245 250 255

Arg Gln Asp Ala Tyr Asp Gly Arg Asp Tyr Ile Ala Leu Asn Glu Asp
 260 265 270

Leu Lys Thr Trp Thr Ala Ala Asp Phe Ala Ala Gln Ile Thr Arg Asn
 275 280 285

Lys Trp Glu Arg Ala Arg Tyr Ala Glu Arg Leu Arg Ala Tyr Leu Glu
 290 295 300

Gly Thr Cys Val Glu Trp Leu Ser Arg Tyr Leu Glu Leu Gly Lys Glu
 305 310 315 320

Thr Leu Leu Arg Ser Asp Pro Pro Glu Ala His Val Thr Leu His Pro
 325 330 335

Arg Pro Glu Gly Asp Val Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr
 340 345 350

Pro Ala Asp Ile Thr Leu Thr Trp Gln Leu Asn Gly Glu Asp Leu Thr
355 360 365

Gln Asp Met Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe
370 375 380

Gln Lys Trp Ala Ser Val Val Val Pro Leu Gly Lys Glu Gln Asn Tyr
385 390 395 400

Thr Cys Arg Val Glu His Glu Gly Leu Pro Lys Pro Leu Ser Gln Arg
405 410 415

Trp Gly Ser Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp
420 425 430

His Glu His His His His His His
435 440

<210> 48

<211> 440

<212> PRT

<213> Artificial

<220>

<223> exemplary human HLA-G/ rat RT1A β 2M MHC class I complex wherein
the positions specific for human HLA-G are grafted onto the rat
RT1A framework

<400> 48

Ala Gln Phe Ser Ala Ser Ala Ser Arg Gly Cys Gly Gly Ser Gly Gly
1 5 10 15

Gly Gly Ser Gly Gly Gly Gly Ser Ile Gln Lys Thr Pro Gln Ile Gln
20 25 30

Val Tyr Ser Arg His Pro Pro Glu Asn Gly Lys Pro Asn Phe Leu Asn
35 40 45

Cys Tyr Val Ser Gln Phe His Pro Pro Gln Ile Glu Ile Glu Leu Leu
50 55 60

Lys Asn Gly Lys Lys Ile Pro Asn Ile Glu Met Ser Asp Leu Ser Phe

80

95

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125

140

160

175

190

205

220

240

255

270

285

Lys Trp Glu Ala Ala Asn Tyr Ala Glu Arg Leu Arg Ala Tyr Leu Glu
290 295 300

Gly Thr Cys Val Glu Trp Leu His Arg Tyr Leu Glu Asn Gly Lys Glu
305 310 315 320

Met Leu Gln Arg Ala Asp Pro Pro Glu Ala His Val Thr His His Pro
325 330 335

Val Phe Asp Tyr Glu Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr
340 345 350

Pro Ala Glu Ile Ile Leu Thr Trp Gln Leu Asn Gly Glu Asp Leu Thr
355 360 365

Gln Asp Val Glu Leu Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe
370 375 380

Gln Lys Trp Ala Ser Val Val Val Pro Ser Gly Lys Glu Gln Asn Tyr
385 390 395 400

Thr Cys Arg Val Gln His Glu Gly Leu Pro Lys Pro Leu Met Leu Arg
405 410 415

Trp Gly Ser Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp
420 425 430

His Glu His His His His His His
435 440

<210> 49
<211> 33
<212> PRT
<213> Artificial

<220>
<223> linker and his-Tag

<400> 49

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Ser Gly Leu Asn Asp
1 5 10 15

Ile Phe Glu Ala Gln Lys Ile Glu Trp His Glu His His His His His
20 25 30

His

<210> 50
<211> 9
<212> PRT
<213> Artificial

<220>
<223> peptide

<400> 50

Val Leu Asp Phe Ala Pro Pro Gly Ala
1 5

<210> 51
<211> 107
<212> PRT
<213> Homo Sapiens

<400> 51

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
20 25 30

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 52
<211> 105
<212> PRT
<213> Homo Sapiens

<400> 52

Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu
1 5 10 15

Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe
20 25 30

Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val
35 40 45

Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys
50 55 60

Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser
65 70 75 80

His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu
85 90 95

Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 53
<211> 328
<212> PRT
<213> Homo Sapiens

<400> 53

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
180 185 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
195 200 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210 215 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225 230 235 240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
245 250 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro
325

<210> 54
<211> 328
<212> PRT
<213> homo sapiens

<400> 54

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys

100

105

110

Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
 115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
 130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
 145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
 165 170 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
 180 185 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
 195 200 205

Lys Ala Leu Gly Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
 210 215 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
 225 230 235 240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
 245 250 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
 260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
 275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
 290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
 305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro
325

<210> 55
<211> 325
<212> PRT
<213> Homo Sapiens

<400> 55

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro
100 105 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
115 120 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
130 135 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145 150 155 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
165 170 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
180 185 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
195 200 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
210 215 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
275 280 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
290 295 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305 310 315 320

Leu Ser Leu Ser Leu
325